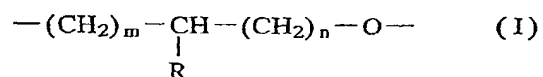


Claims

1. A branched polyacetal resin composition, comprising 100 parts by weight of a branched polyacetal copolymer (A) having an oxymethylene group as the main repeating unit and having a branching unit represented by the following formula (I), and 0.1 to 30 parts by weight of a compound (B) having a polyalkylene ether unit as the main constituting component, and/or 0.01 to 10 parts by weight of an ester (C) of fatty acid with polyhydric alcohol having a hydroxyl group:



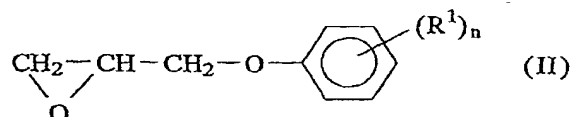
wherein m and n each is an integer of 0 to 5; the sum of m + n is 1 to 5; and R is a monovalent organic group having a molecular weight of 40 to 1000.

2. The composition according to claim 1, wherein R in the branching unit represented by the formula (I) is selected from a monovalent organic group having an aromatic ring.

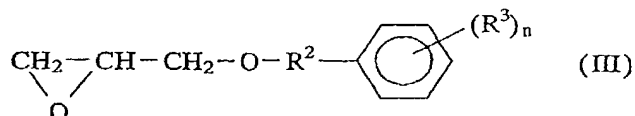
3. The composition according to claim 1 or 2, wherein the branched polyacetal copolymer (A) is prepared by a copolymerization of 100 parts by weight of trioxane (a), 0.001 to 10 parts by weight of a monofunctional glycidyl compound (b-1) and 0 to 20 parts by weight of a cyclic ether compound (c) which is copolymerizable with trioxane.

4. The composition according to claim 3, wherein the monofunctional glycidyl compound (b-1) is selected from the group consisting of a glycidyl ether compound and a glycidyl ester compound, each having a molecular weight of 100 to 1000.

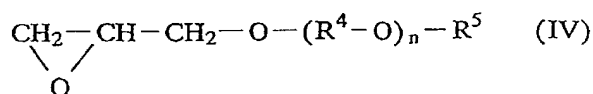
5. The composition according to claim 3 or 4, wherein the monofunctional glycidyl compound (b-1) is selected from the glycidyl ether compounds represented by the following formulae (II), (III) and (IV):



wherein R^1 is a C_{1-12} alkyl group, a substituted alkyl group, an alkoxy group, an aryl group, a substituted aryl group or halogen; and n is an integer of 0 to 5 and, when n is 2 or more, the R^1 's may be the same or different:



wherein R^2 is a C_{1-30} alkylene group, a substituted alkylene group or a polyalkylene oxide glycol residue; R^3 is a C_{1-12} alkyl group, a substituted alkyl group, an alkoxy group, an aryl group, a substituted aryl group or halogen; and n is an integer of 0 to 5 and, when n is 2 or more, the R^3 's may be the same or different:



wherein R^4 is a C_{1-30} alkylene group; n is an integer of 0 to 20; and R^5 is a C_{1-30} alkyl group, a C_{2-20} alkenyl group or an alkynyl group.

6. The composition according to claim 1 or 2, wherein the branched polyacetal copolymer (A) is prepared by a copolymerization of 100 parts by weight of trioxane (a), 0.001 to 10 parts by weight of a branch-formable cyclic formal compound (b-2), and 0 to 20 parts by weight of a cyclic ether compound (c) which is copolymerizable with trioxane.

7. The composition according to any of claims 3 to 6, wherein the branched polyacetal copolymer (A) indispensably comprises the cyclic ether compound (c) copolymerizable with trioxane and is a copolymerized product of 0.1 to 20 parts by weight of the compound (c) to 100 parts by weight of trioxane.

8. The composition according to any of claims 3 to 7, wherein the cyclic ether compound (c) which is copolymerizable with trioxane is selected from the group consisting of ethylene oxide, 1,3-dioxolan, diethylene glycol formal and 1,4-butanediol formal.

9. The composition according to any of claims 1 to 8, wherein the compound (B) having a polyalkylene ether unit as the main constituting component is at least one compound selected from

the group consisting of polyethylene glycol, polypropylene glycol, polytetramethylene glycol and a copolymer glycol having such a constituting unit.

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